# Maximal1R
# Rack Mount Access Power Controller

Rev. DSMaximal1R - A19K

## Overview

Altronix new Maximal1R rack mount access power controller distributes and switches power to access control systems and accessories. It converts a 115VAC 50/60Hz input into sixteen (16) independently controlled 12VDC or 24VDC fuse protected outputs. Outputs are activated by an normally open (NO) or normally closed (NC) dry trigger input from an Access Control System, Card Reader, Keypad, Push Button, PIR, etc. This unit will route power to a variety of access control hardware devices including: Mag Locks, Electric Strikes, Magnetic Door Holders, etc. Outputs will operate in both Fail-Safe and/or Fail-Secure modes. The FACP Interface enables Emergency Egress, Alarm Monitoring, or may be used to trigger other auxiliary devices. The fire alarm disconnect feature is individually selectable for any or all of the outputs.

## Specifications

### Input:
- 115VAC 60Hz., 1.9 amp.
- Normally closed [NC] or normally open [NO] dry contact inputs (switch selectable).

### Outputs:
- 12VDC @ 4 amp or 24VDC @ 3 amp total output current.
- Sixteen (16) fuse protected outputs.
- Maximum current per ACM8R-M output is 2.5 amp.
- Individually selectable Mag Lock/Strike (Fail-Safe, Fail-Secure) solid state fuse protected outputs.
- Thermal and short circuit protection with auto reset.

### Fire Alarm Interface:
- Latching or Non-Latching fire alarm reset switch individually selectable for each output.
- Remote reset capability for latching Fire Alarm Interface mode.
- Fire Alarm disconnect input options:
  a) Normally open [NO] or normally closed [NC] dry contact input.
  b) Polarity reversal input from FACP signaling circuit.

### Visual Indicators:
- Individual Output Status LEDs located on the front panel.

### Battery Backup:
- Built-in charger for sealed lead acid or gel type batteries (if batteries are required install separate enclosure).
- Maximum charge current .7 amp.
- Automatic switch over to stand-by battery when AC fails.
- Zero voltage drop when unit switches over to battery backup (AC failure condition).

### Supervision:
- AC fail supervision (form “C” contact).
- Low battery and battery presence supervision (form “C” contact).

### Additional Features:
- Removable terminal blocks with locking screw flange.
- 3-wire line cord.
- Illuminated master power disconnect circuit breaker with manual reset.

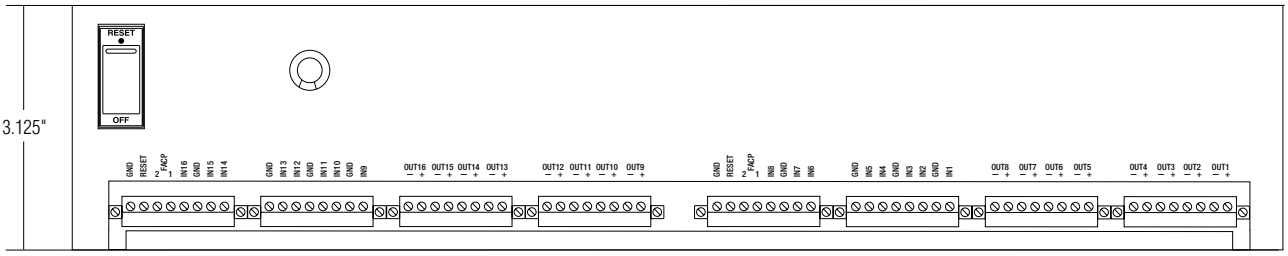
### Rack Dimensions:
3.25”H x 19.125”W x 8.5”D

### Shipping Weight *(approximate)*:
- Maximal1R: 12.7 lbs.

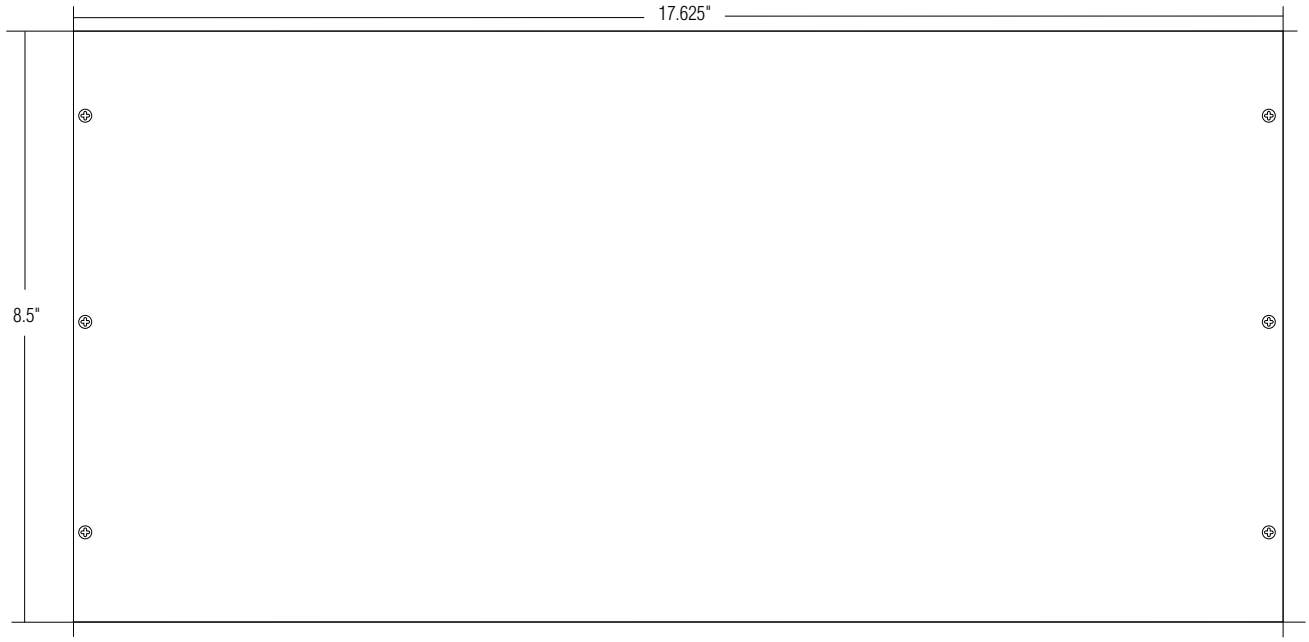
# ***Maximal1R Rack Chassis Dimensions***

3.25”H x 19.125”W x 8.5”D

REAR


3.125"
RESET
OFF
GND RESET 2 1 ACP IN16 GND IN15 IN14
GND IN13 IN12 GND IN11 IN10 GND IN9
OUT16 OUT15 OUT14 OUT13
OUT12 OUT11 OUT10 OUT9
GND RESET 2 1 ACP IN8 GND IN7 IN6
GND IN5 IN4 GND IN3 IN2 GND IN1
OUT8 OUT7 OUT6 OUT5
OUT4 OUT3 OUT2 OUT1

TOP & BOTTOM




FRONT